An infrarentive social buttering system to improve and	Project Title	Funding	Strategic Plan Objective	Institution
Normal basis of empathy and its dysfunction in autism diserdies. [ASD] Neuroligin requilibors of central GABAergic synapses 578,000 0 02.0ther	measure social goals for students with high functioning	\$74,995	Q4.Other	3-C Institute for Social Development
spectrum disorders (ASD) Whole-genome sequencing for rare highly penetrant Role of UBERSA in recordinal plasticity and function State of UBERSA in recordinal plasticity and function Functional study of synaptic sanifold proteins SHANGS Role of UBERSA in recordinal plasticity and function Functional study of synaptic sanifold proteins SHANGS Role of UBERSA in recordinal study of synaptic sanifold proteins SHANGS Role of UBERSA in recordinal plasticity and function Functional study of synaptic sanifold proteins SHANGS Role of UBERSA in recordinal study of synaptic sanifold proteins SHANGS Role of UBERSA in recordinal study of synaptic sanifold proteins SHANGS Role of UBERSA in recordinal study of synaptic sanifold proteins SHANGS Role of UBERSA in recordinal study of synaptic sanifold proteins SHANGS Role of UBERSA in recordinal study of synaptic sanifold proteins SHANGS Role of UBERSA in recordinal study of synaptic sanifold proteins SHANGS Role of UBERSA in recordinal study of synaptic sanifold study of stud	Imaging signal transduction in single dendritic spines	\$386,100	Q2.Other	Duke University
Whole-genome sequencing for rare highly penetrant garle varients in solizopherates and incomplete varients in solizopherates i		\$572,893	Q2.Other	Duke University
gene variants in schizophreina Role of UBESA in necordical plasticity and function S480,000 Q4.S.B Duke University Duke University Duke University S785,188 Duke University Du	Neuroligin regulation of central GABAergic synapses	\$78,000	Q2.Other	Duke University
Functional study of synaptic scaffold protein SHANK3 shifts mouse model Action of the studies of autism-related Drosophila neurosin and neurosin and neurosin studies of the studies of t		\$1,461,725	Q3.L.B	Duke University
and autism motise model Neurogenetic model of social behavior heterogeneity in autism. Regulatory T cells and autism. Description of social robust for the production of the	Role of UBE3A in neocortical plasticity and function	\$490,000	Q4.S.B	Duke University
autism spectrum disorders Immunopathogenesis in autism: Regulatory T cells and subminurally in neturodevelopment East Carolina University Pathways \$200,000 Q5.Other East Carolina University Pathways \$200,000 Q4.S.B Massachusetts Institute of Technology behaviors in autism Collaborative research: Detecting false discoveries under dependence using mixtures 220,000 Q2.Other Unitive doctored covering training point attention in irriants and toddlers with disabilities Daily living and community skills video game for children with developmental disabilities Daily living and community skills video game for children with developmental disabilities Daily living and community skills video game for children with developmental disabilities Q4.Other Sandbox Learning Company \$137,500 Q2.Other The University of North Carolina at Chapel Hill disorders Supplement to NIH ACE Network grant: "A longitudinal MRI study of Infants at risk for autism" ACE Network: A longitudinal MRI study of Infants at risk for autism Sensory experiences in children with autism Sensory experiences in children with autism Sensory experiences in children with autism Sensory experiences in entry brain development; Brain development; Brain development in Turner syndrome Sex differences in early brain development; Brain development; Brain development in Turner syndrome Sex differences in early brain development; Brain development; Brain development; Infants at Chapel Hill forebrain A longitudinal MRI study of brain development; Brain development; Brain development; Infants at Chapel Hill forebrain Sex differences in early brain development; Brain development; Brain development; Infants at Chapel Hill forebrain A longitudinal MRI study of brain development; Brain development; Brain development; Infants at Chapel Hill Sex differences in early brain development; Brain development; Brain development; Infants at Chapel Hill Sex differences in early brain development; Brain development; Infants at Chapel Hill Sex differences in early brain		\$150,000	Q4.S.B	Duke University
autolimivality in neurodevelopment East Carolina University Pathways \$200,000 Q5.Other East Carolina University Pathways \$200,000 Q4.S.B Massachusetts Institute of Technology behaviors in autism Collaborative research: Detecting false discoveries under dependence using mixtures \$200,000 Q2.Other North Carolina State University Utility of social robots for promoting joint atention in infants and todalers with disabilities 199,650 Q4.Other Orelena Hawks Puckett Institute infants and todalers with disabilities Daily living and community skills video game for children synd evelopmental disabilities Daily living and community skills video game for children synd evelopmental disabilities Q4.Other Sandbox Learning Company The University of North Carolina at Chapel Hill sorders Genetic studies of autism-related Dissophila neurexin and neuroligin The University of North Carolina at Chapel Hill study of infants at risk for autism Supplement to NIH ACE Network grant: "A longitudinal MRI study of infants at risk for autism" ACE Network: A longitudinal MRI study of infants at risk for autism Sensory experiences in children with autism \$483,083 Q1.Other University of North Carolina at Chapel Hill Emotion-modulated psychophysiology of autism spectrum disorders Sex differences in early brain development; Brain development; Brain development in Trunet syndrome \$483,083 Q2.S.D University of North Carolina at Chapel Hill forebrain A longitudinal MRI study of Ibrain development; Brain development in Turnet syndrome \$483,083 Q2.S.D University of North Carolina at Chapel Hill forebrain A longitudinal MRI study of brain development in fragile \$480,080 Q2.S.D University of North Carolina at Chapel Hill forebrain		\$795,188	Q4.S.B	Duke University
Synaptic and circuitry mechanisms of repetitive behaviors in autism Od. S.B. Massachusetts Institute of Technology Dehaviors in autism Od.		\$0	Q3.S.F	East Carolina University
behaviors in autism Collaborative research: Detecting false discoveries under dependence using mixtures Utility of social robots for promoting joint attention in infants and toddlers with disabilities Daily living and community skills video game for children with disabilities Daily living and community skills video game for children with developmental disabilities Genetic studies of autism-related Drosophila neurexin and neuroligin Small-molecule compounds for treating autism spectrum disorders Supplement to NIH ACE Network grant: "A longitudinal MRI study of infants at risk for autism." Supplement to NIH ACE Network and subtractive infants at risk for autism. Sensor experiences in children with autism Sensor experiences in children with autism Sensor experiences in early brain development; Brain development; Brain development in fragile R longitudinal MRI study of brain development in fragile Sensor promoting in the study of infants at chapel Hill forebrain R study of infants at risk for autism. Sensor experiences in early brain development; Brain development; Brain development in fragile S p. 8617,080 Q2.S.D University of North Carolina at Chapel Hill forebrain R longitudinal MRI study of brain development in fragile S p. 8617,080 Q2.S.D University of North Carolina at Chapel Hill forebrain R longitudinal MRI study of brain development in fragile S p. 8617,080 Q2.S.D University of North Carolina at Chapel Hill forebrain	East Carolina University Pathways	\$200,000	Q5.Other	East Carolina University
Utility of social robots for promoting joint attention in infants and toddlers with disabilities Daily living and community skills video game for children with developmental disabilities Genetic studies of autism-related Drosophila neurexin and neuroligin Small-molecule compounds for treating autism spectrum disorders Small-molecule compounds for treating autism spectrum \$175,000 Q4.S.B The University of North Carolina at Chapel Hill disorders Supplement to NIH ACE Network grant: "A longitudinal MRI study of infants at risk for autism" ACE Network: A longitudinal MRI study of infants at risk for autism Sensory experiences in children with autism Sensory experiences in children with autism Sensory experiences in early brain development; Brain development; Brain development in Truner syndrome \$153,382 Q2.S.D University of North Carolina at Chapel Hill spectrum disorders Sex differences in early brain development; Brain development; Brain development in Truner syndrome \$154,780 Q2.S.D University of North Carolina at Chapel Hill spectrum disorders Sex differences in early brain development; Brain development; Brain development in Truner syndrome \$154,780 Q2.S.D University of North Carolina at Chapel Hill forebrain A longitudinal MRI study of brain development in fragile X syndrome		\$400,000	Q4.S.B	Massachusetts Institute of Technology
Infantis and toddlers with disabilities Daily Irving and community skills video game for children with development; Brain development; Daily Syndrome Q4. Other Q4. Other Q4. Other Q4. Other Q4. Other C4. Other C5. Other C6. Other C6. Other C6. Other C6. Other C7. Other C7. Other C7. Other C7. Other C7. Other C7. Other C8. Development on NiH ACE Network grant: "A longitudinal RI study of infants at risk for autism" ACE Network: A longitudinal MRI study of infants at risk for autism Sensory experiences in children with autism S483,083 C7. Other C7. Ot		\$20,000	Q2.Other	North Carolina State University
with developmental disabilities Genetic studies of autism-related Drosophila neurexin and neuroligin Small-molecule compounds for treating autism spectrum disorders Supplement to NIH ACE Network grant: "A longitudinal MRI study of infants at risk for autism" ACE Network: A longitudinal MRI study of infants at risk for autism Sensory experiences in children with autism Sensory experiences in early brain development; Brain development; Brain development in Turner syndrome Regulation of 22q11 genes in embryonic and adult for ebrain A longitudinal MRI study of brain development in fragile Sensory experiences in embryonic and adult syndrome Sensory experiences in early brain development; Brain development in Turner syndrome Sensory experiences in embryonic and adult syndrome Sensory experiences in early brain development in fragile syndrome Sensory experiences in early brain development in fragile syndrome Sensory experiences in early brain development in fragile syndrome Sensory experiences in early brain development in fragile syndrome Sensory experiences in early brain development in fragile syndrome Sensory experiences in early brain development in fragile syndrome Sensory experiences in early brain development in fragile syndrome Sensory experiences in early brain development in fragile syndrome Sensory experiences	Utility of social robots for promoting joint attention in infants and toddlers with disabilities	\$199,650	Q4.Other	Orelena Hawks Puckett Institute
and neuroligin Small-molecule compounds for treating autism spectrum disorders Supplement to NIH ACE Network grant: "A longitudinal MRI study of infants at risk for autism" ACE Network: A longitudinal MRI study of infants at risk for autism ACE Network: A longitudinal MRI study of infants at risk for autism Sensory experiences in children with autism \$483,083 Q1.L.A University of North Carolina at Chapel Hill Emotion-modulated psychophysiology of autism spectrum disorders Sex differences in early brain development; Brain development; Brain development in Turner syndrome \$9,806 Q2.S.D University of North Carolina at Chapel Hill A longitudinal MRI study of brain development in fragile X syndrome \$617,080 Q2.S.D University of North Carolina at Chapel Hill		\$99,258	Q4.Other	Sandbox Learning Company
disorders Supplement to NIH ACE Network grant: "A longitudinal MRI study of infants at risk for autism" ACE Network: A longitudinal MRI study of infants at risk for autism Sensory experiences in children with autism Sensory experiences in chi		\$137,500	Q2.Other	The University of North Carolina at Chapel Hill
MRI study of infants at risk for autism" ACE Network: A longitudinal MRI study of infants at risk for autism Sensory experiences in children with autism \$483,083 Q1.Other University of North Carolina at Chapel Hill Emotion-modulated psychophysiology of autism spectrum disorders Sex differences in early brain development; Brain development in Turner syndrome Regulation of 22q11 genes in embryonic and adult forebrain A longitudinal MRI study of brain development in fragile X syndrome \$617,080 Q1.Other Q1.Other University of North Carolina at Chapel Hill		\$175,000	Q4.S.B	The University of North Carolina at Chapel Hill
for autism Sensory experiences in children with autism \$483,083 Q1.Other University of North Carolina at Chapel Hill Emotion-modulated psychophysiology of autism spectrum disorders Sex differences in early brain development; Brain development in Turner syndrome Regulation of 22q11 genes in embryonic and adult forebrain A longitudinal MRI study of brain development in fragile X syndrome \$617,080 Q1.Other University of North Carolina at Chapel Hill		\$135,000	Q1.L.A	University of North Carolina at Chapel Hill
Emotion-modulated psychophysiology of autism spectrum disorders Sex differences in early brain development; Brain development; Brain development in Turner syndrome Regulation of 22q11 genes in embryonic and adult forebrain A longitudinal MRI study of brain development in fragile X syndrome \$156,781 Q1.Other University of North Carolina at Chapel Hill University of North Carolina at Chapel Hill Q2.S.D University of North Carolina at Chapel Hill		\$3,283,233	Q1.L.A	University of North Carolina at Chapel Hill
spectrum disorders Sex differences in early brain development; Brain development in Turner syndrome Regulation of 22q11 genes in embryonic and adult forebrain A longitudinal MRI study of brain development in fragile X syndrome \$617,080 Q2.S.D University of North Carolina at Chapel Hill	Sensory experiences in children with autism	\$483,083	Q1.Other	University of North Carolina at Chapel Hill
development in Turner syndrome Regulation of 22q11 genes in embryonic and adult forebrain A longitudinal MRI study of brain development in fragile X syndrome Q2.S.D University of North Carolina at Chapel Hill University of North Carolina at Chapel Hill		\$156,781	Q1.Other	University of North Carolina at Chapel Hill
forebrain A longitudinal MRI study of brain development in fragile X syndrome Q2.S.D University of North Carolina at Chapel Hill		\$153,382	Q2.S.D	University of North Carolina at Chapel Hill
X syndrome		\$9,806	Q2.S.D	University of North Carolina at Chapel Hill
A family genetic study of language in guttern \$200.064		\$617,080	Q2.S.D	University of North Carolina at Chapel Hill
The families represented study of language in autism \$200,004 QZ.5.5 University of Notth Calolina at Chapet fill	A family-genetic study of language in autism	\$208,064	Q2.S.G	University of North Carolina at Chapel Hill

Project Title	Funding	Strategic Plan Objective	Institution
Neural circuitry of social cognition in the broad autism phenotype	\$411,039	Q2.S.G	University of North Carolina at Chapel Hill
A multigenerational longitudinal study of language development: Insight from autism	\$92,000	Q2.S.G	University of North Carolina at Chapel Hill
An investigation of the overlap of autism and fragile X syndrome	\$74,000	Q2.S.G	University of North Carolina at Chapel Hill
MRI study of brain development in school age children with autism	\$0	Q2.L.A	University of North Carolina at Chapel Hill
Pragmatic skills of young males and females with fragile X syndrome (supplement)	\$125,116	Q2.L.A	University of North Carolina at Chapel Hill
Pragmatic skills of young males and females with fragile X syndrome	\$507,009	Q2.L.A	University of North Carolina at Chapel Hill
Functional neuroimaging of psychopharmacologic intervention for autism	\$158,810	Q2.L.B	University of North Carolina at Chapel Hill
Statistical analysis of biomedical imaging data in curved space	\$330,008	Q2.Other	University of North Carolina at Chapel Hill
Multisensory processing in autism	\$0	Q2.Other	University of North Carolina at Chapel Hill
A molecular genetic study of autism and related phenotypes in extended pedigrees	\$582,231	Q3.S.A	University of North Carolina at Chapel Hill
A molecular genetic study of autism and related phenotypes in extended pedigrees (supplement)	\$99,600	Q3.S.A	University of North Carolina at Chapel Hill
Centers for Autism and Developmental Disabilities Research and Epidemiology (CADDRE) - North Carolina	\$1,209,900	Q3.L.D	University of North Carolina at Chapel Hill
Characterization of a novel mouse model of restricted repetitive behaviors	\$222,000	Q4.S.B	University of North Carolina at Chapel Hill
NrCAM, a candidate susceptibility gene for visual processing deficits in autism	\$0	Q4.S.B	University of North Carolina at Chapel Hill
Novel strategies to manipulate Ube3a expression for the treatment of autism and Angelman syndrome	\$0	Q4.S.B	University of North Carolina at Chapel Hill
Preclinical testing of novel oxytocin receptor activators in models of autism phenotypes	\$167,572	Q4.S.B	University of North Carolina at Chapel Hill
Preclinical testing of novel oxytocin receptor activators in models of autism phenotypes	\$346,289	Q4.S.B	University of North Carolina at Chapel Hill
Preclinical testing of novel oxytocin receptor activators in models of autism phenotypes	\$39,325	Q4.S.B	University of North Carolina at Chapel Hill
Social cognition and interaction training for adolescents with high functioning autism	\$0	Q4.S.F	University of North Carolina at Chapel Hill
Early intervention for children screened positive for autism by the First Year Inventory	\$0	Q4.S.F	University of North Carolina at Chapel Hill
Efficacy of a parent-mediated intervention for one-year- olds at risk for autism	\$623,086	Q4.L.D	University of North Carolina at Chapel Hill

Project Title	Funding	Strategic Plan Objective	Institution	
Social communication and symbolic play intervention for preschoolers with autism	\$322,799	Q4.L.D	University of North Carolina at Chapel Hill	
Comparison of two comprehensive treatment models for preschool-aged children with autism spectrum disorders and their families	\$967,343	Q4.L.D	University of North Carolina at Chapel Hill	
Autism insurance policy and access to care for children with autism: A state level analysis	\$100,000	Q5.S.A	University of North Carolina at Chapel Hill	
Leadership Education in Neurodevelopmental Disabilities	\$798,691	Q5.L.C	University of North Carolina at Chapel Hill	
The Professional Development Center: Children with autism spectrum disorders	\$999,999	Q5.L.C	University of North Carolina at Chapel Hill	
Preparing early childhood special educators, occupational therapists, and speech-language pathologists for working with young children with autism and their families	\$199,519	Q5.Other	University of North Carolina at Chapel Hill	
Personnel preparation program in low-incidence severe disabilities	\$56,700	Q5.Other	University of North Carolina at Chapel Hill	
Autism and Developmental Disabilities Monitoring (ADDM) network - North Carolina	\$413,169	Q7.I	University of North Carolina at Chapel Hill	
Preparing SLPs, OTs, early childhood special educators, and developmental psychologists for leadership roles in teaching, research, and service focused on young children with autism and their families	\$199,744	Q7.K	University of North Carolina at Chapel Hill	
Post-doctoral training in special education research	\$159,391	Q7.K	University of North Carolina at Chapel Hill	
Behavioral Measurement Core	\$502,439	Q7.Other	University of North Carolina at Chapel Hill	
Administrative Core	\$502,455	Q7.Other	University of North Carolina at Chapel Hill	
Birth to Kindergarten Professional Preparation: Inclusive Services for Children with Autism Spectrum Disorders	\$299,953	Q7.K	University of North Carolina at Greensboro	
Neuropharmacology of motivation and reinforcement in mouse models of autistic spectrum disorders	\$0	Q4.S.B	University of North Carolina School of Medicine	
Ube3a requirements for structural plasticity of synapses	\$40,000	Q2.Other	Univ of North Carolina	
Preparing and supporting personnel in Western North Carolina to teach students with severe disabilities	\$200,000	Q5.L.C	Western Carolina University	
Improving speech-language pathology services to dhildren with severe disabilities through preprofessional and professional training	\$196,810	Q5.Other	Western Carolina University	